EQUIPMENT LIST "A"

					ΉΔ	SE	<u>C</u>	HΑ	RT			
1 (P) (Y) (G) (G)	2 (R) (Y)-(Y) (G) (G)	R	4 (R) (Y) (G)	5 R Y G	6 (R) (Y) (G)	7 R Y G	8 (R) (Y) (G)	9 P	10 条	11 S	12 \$	

1 + 6	G-	- GG ▼	G	R	R	R	R	R	DW	DW	DW	DW	A
CHANGE	∢ Y –	GY −	G	R	R	R	R	R	DW	DW	DW	DW	_
2 + 6	G	G	G	G	G	R	R	R	WK	WK	DW	DW	00
EAR	G	G	G	G	G	R	R	R	FL/DW	FL/DW	DW	DW	←
CHANGE	Υ	Y	Y	Y	Y	R	R	R	· DW	DW	D₩	DW	
4	R	R	R	R	R	G	G	G	DW	DW	D₩	DW	
GE	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	\rightarrow
4 ALT	R	R	R	R	R	G	G	G	DW	DW	WK	WK	Ť ,
EAR	R	R	R	R	R	G	G	G	DW	DW	FL/DW	FL/DW	1
CHANGE	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	↓ ▼
ING FION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	+

PROJECT DESCRIPTION

ORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT MD 450 AND I-95 SOUTHBOUND RAMPS IN PRINCE GEORGE'S COUNTY. MD 450 IS O TO RUN IN A EAST-WEST DIRECTION.

CTION OPERATION

EERING - MAINTENANCE

: (301) 513-7304

<code>FLY</code> $_{f r}$ THE INTERSECTION OPERATES IN A NEMA FOUR (4) PHASE <code>FULL</code> $_{f r}$ RAFFIC $_{f r}$ ACTUATED MODE. IS A EXCLUSIVE/PERMISSIVE LEFT TURN FOR EASTBOUND MD 450. THE MD 450 THROUGH MOVEMENTS E CONCURRENTLY. THE I-95 SOUTHBOUND RAMP OPERATES ALONE. THERE IS AN EXISTING TUATED PEDESTRIAN CROSSING ON THE NORTH LEG OF THE INERSECTION. A NEW PUSH BUTTON ED PEDESTRIAN CROSSING WILL BE PROVIDED FOR THE WEST LEG OF THE INTERSECTION.

TERSECTION IS TO BE MODIFIED TO A NEMA FOUR (4) PHASE FULL-TRAFFIC-ACTUATED MODE. OPE WILL BE PROVIDED FOR ALL APPROACHES. THERE WILL BE PEDESTRIAN CROSSINGS PROVIDED E WEST LEG OF THE INTERSECTION.

ISTING CONTROLLER AND LOOP DETECTOR AMPLIFIERS WILL BE UTILIZED.

PROJECT CONTACTS

NTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS: MR. RICHARD L. DAFF, SR. MAJID SHAKIB STANT DISTRICT CHIEF, TRAFFIC OPERATIONS DIVISION IEER - TRAFFIC PHONE: (410) 787-7630 : (301) 513-7358 MR. ROBERT SNYDER UGIE REBISH ASSISTANT DIVISION CHIEF -TY ENGINEER TRAFFIC OPERATIONS : (301) 513-7350 (410) 787-7630 UGENE BAILEY MR. ED RODENHIZER LEADER SIGN OPERATIONS TEAM LEADER SIGNAL OPERATIONS 787-7676 (410) 787-7650 ALEIGH MEDLEY MR DAVE SCHWARTZ TANT DISTRICT SUPPLY OFFICER IV

(SIGNAL SHOP WAREHOUSE)

(410) 787-7668

A. EQUIPMENT TO BE SUPPLIED BY SHA

QUANTITY DESCRIPTION

VIDEO INTERFACE EQUIPMENT 900000 1 EACH ___ 813 973023 69.5 S.F. SHEET ALUMINUM SIGNS

> - 2 EACH M6-2L (21"X15") "SIGN" "DIRECTIONAL ARROW — DIAGONAL" - 2 EACH M6-2R (21"X15") "SIGN" "DIRECTIONAL ARROW - DIAGONAL"

- 4 EACH W11-2 (30"X30") "SIGN" "PEDESTRIAN CROSSING (SYMBOL)"

1 EACH ONE PIECE SHIELD ASSEMBLY ON A BLACK BACKGROUND - (30"x 51") POLE MOUNTED:

> M3-2 SIGN (24"x12") "EAST" (FOR INDEPENDENT USE)

M1-5 SIGN (30"x24") "MARYLAND 450"

(FOR INDEPENDENT USE)

M6-1 SIGN (21"x15") "DIRECTION ARROW-HORIZONAL"

1 EACH ONE PIECE SHIELD ASSEMBLY ON A BLACK BACKGROUND - (48"x 75") POLE MOUNTED:

> M3-2 SIGN (30"x15") "EAST" (FOR INDEPENDENT USE)

M1-5 SIGN (48"x36") "MARYLAND 450"

(FOR INDEPENDENT USE)

M6-1 SIGN (30"x24") "DIRECTION ARROW-HORIZONAL"

* TO BE INSTALLED BY SHA SIGNAL SHOP

CATEGORY CODE NO.

120500

EQUIPMENT LIST

DESCRIPTION

MAINTENANCE OF TRAFFIC

B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR:

QUANTITY

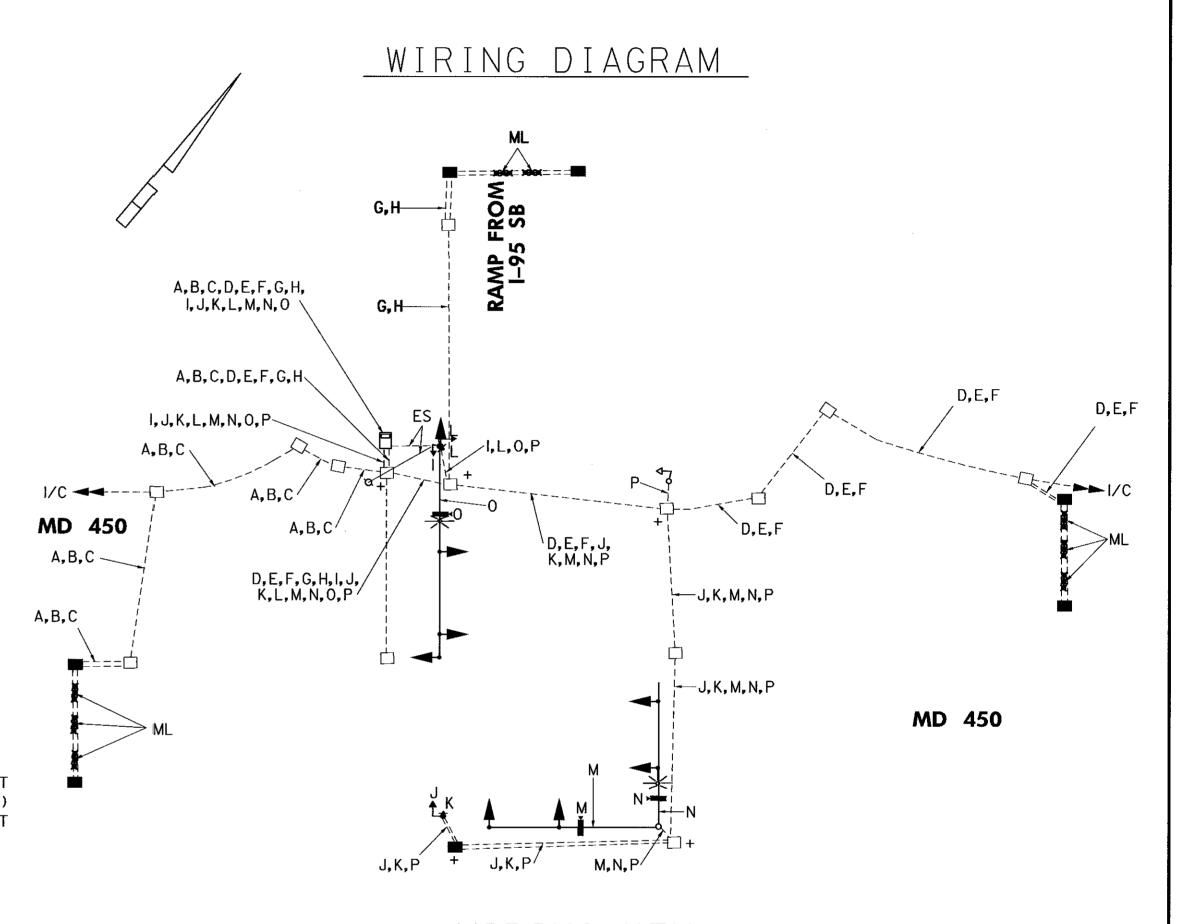
L.S.

205	203030	1 C.Y.	TEST PIT EXCAVATION
556	585405	40 L.F.	FURNISH AND INSTALL 5" WHITE LEAD FREE REFLECTIVE
			THERMOPLASTIC PAVEMENT MARKINGS
556	585622	450 L.F.	FURNISH AND INSTALL 12" WHITE HEAT APLLIED PERMANEN PREFORMED THERMOPLASTIC PAVEMENT MARKING (CROSSWALK
556	585624	140 C.Y.	FURNISH AND INSTALL 24" WHITE HEAT APLLIED PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOPLINE)
801	801004	1 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
804	837001	5 EACH	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION FURNISH AND INSTALL GROUND ROD - 3/4 INCH
004	031001	J LACII	DIAMETER × 10 FOOT LENGTH
805	870160	250 L.F.	FURNISH AND INSTALL 2 IN SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
810	800000	2 EACH	FURNISH AND INSTALL NON-INVASIVE MICRO-LOOP PROBE SET 500' LEAD-IN
810	800000	6 EACH	FURNISH AND INSTALL NON-INVASIVE MICRO-LOOP PROBE SET 1000' LEAD-IN
810	802501	400 L.F.	FURNISH AND INSTALL NO. 6 STRANDED BARE COPPER GROUND WIRE
810	861105	900 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE- 2-CONDUCTOR (NO. 14 AWG)
810	861106	900 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE- 3-CONDUCTOR (NO. 14 AWG)
811	802145	2 EACH	ADJUST EXISTING HANDHOLE
811	811011	7 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
812	801106	68 L.F.	FURNISH AND INSTALL WOOD SIGN SUPPORTS 4"x 6"
813	813014	33.8 S.F.	INSTALL GROUND MOUNTED SIGN
813	813015	35.7 S.F.	INSTALL OVERHEAD MOUNTED SIGN
814	800000	8 EACH	FURNISH AND INSTALL 12 INCH BLACK FACE PEDESTRIAN SIGNAL HEAD SECTION
814	800000	25 EACH	FURNISH AND INSTALL 12 INCH BLACK FACED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
814	800000	3 EACH	FURNISH AND INSTALL 8 INCH BLACK FACED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
817	800000	2 EACH	INSTALL PEDESTRIAN PUSHBUTTON AND SIGN (SIGN: PUSHBUTTON TO CROSS ANNAPOLIS ROAD)
818	818004	1 EACH	FURNISH AND INSTALL 10 FT BREAKAWAY PEDESTAL POLE
	800000	L.S.	REMOVE AND DISPOSE OF EXISTING MATERIAL AND EQUIPMENT
	816011	3 EACH	FURNISH AND INSTALL VIDEO DETECTION CAMERA
	816005	1 EACH	FURNISH AND INSTALL 250 FT. CABLE PRE-MANUFACTURED
			CAMERA TO CABINET
	816010	2 EACH	FURNISH AND INSTALL 500 FT. CABLE PRE-MANUFACTURED CAMERA TO CABINET

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7941 CONNELLY DRIVE, HANOVER, MARYLAND 21076.

> NOTE: 1. ALL EQUIPMENT TO BE REMOVED AND NOT LISTED ABOVE SHALL BECOME THE PROPERTY OF THE CONTRACTOR



WIRING KEY

A.B.C.D.E.F	}	- MICRO-LOOP PROBE SET WITH 1.000' LEAD IN	ML	- MICRO-LOOP PROBE SET
G•H	}	- MICRO-LOOP PROBE SET WITH 500' LEAD IN	ES	- EXISTING OVERHEAD ELECTRICAL SERVICE
I.J	}	- 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)	+	- 3/4 IN. × 10 FT. GROUND ROD
P	}	- STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)		
K•L	}	- 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)		
0	}	- 250' CABLE FOR PRE-MANUFACTURED CAMERA TO CONTROL CABINET	١	
M+N	}	- 500' CABLE FOR PRE-MANUFACTURED CAMERA TO CONTROL CABINET	1	

SS-6



6613AM450.DGN

HARRIS

Frederic R. Harris, Inc.

A JOINT VENTURE

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

MD 450 AND I-95 SOUTHBOUND RAMPS NEW CARROLLTON, MARYLAND

HURST-ROSCHE		· · · · · · · · · · · · · · · · · · ·		
	DRAWN BY: D.R.	F.A.P. NO.: SEE TITLE SHEET	TS NO.	SHEET NO.
	CHECKED BY: D.L.A.	S.H.A. NO.: PG-3265184	953D-GI	
VENTURE	SCALE: NOT TO SCALE	COUNTY: PRINCE GEORGE'S	T.I.M.S. NO.	
5613AM450.26N	DATE: 2/2002	LOG MILE 16045004.57	E107	OF